Subject index to volumes 104–107

Absorption coefficient 1023
Acoustic phonon modes 1295
Acoustic spin wave 1295
Actinides 7, 11, 13, 15, 17, 19, 21, 23, 27, 29, 31, 33, 35, 37, 41, 43, 45, 47, 49, 51, 53, 55, 57, 60, 63, 697
Activation energies 407, 991
Active states 267
Actuator design 1135
Adiabatic magnetization 901
Aftereffect 324, 361, 1115
Aging 1607, 1609, 1623
$AlCo_{1-x}Mn_x$ 2040
Al_2O_3:Cr 944
Almeida–Thouless 149, 1676
Amorphous magnetism 1090
Amorphous materials 1893
Amorphous phase 1903
Amorphous systems 85, 93, 95, 111, 135, 145, 149, 359, 1152
– alloys 87, 91, 103, 113, 128, 143, 155, 157, 159, 163, 165, 167, 397, 1563, 1583, 2021, 2079
– ferromagnets 73, 121, 123, 125, 271, 359
– films 117, 303, 981, 1009, 1033, 1755, 1769
– magnetic insulators 1676
– magnetization processes 157
– magnets 152
– metallic glasses 85, 97, 100, 119, 359
– metals 89
– RE compounds 85, 1152, 1235
– ribbons 109, 341
– transition metals 2085
– wires 327
Anderson localization 1699, 2079, 2105
Anderson model 593, 1327
Anisotropic effects 1907
Anisotropic exchange 43, 1673
Anisotropic magnetic fluctuations 589
Anisotropic superconductivity 601
Anisotropy 19, 73, 93, 145, 155, 425, 605, 1102, 1152, 1211, 1229, 1287, 1369, 1431, 1433, 1537, 1803, 1837, 1868, 2003, 2089
– competing 187, 931, 1051, 1363, 1637
– Fe compounds 189
– field-induced 119, 613, 1789
– films 1889, 1891
– growth-induced 431
– induced 107, 137, 361
– induced unidirectional 333
– magnetic 7, 43, 449, 469, 623, 1033, 1113, 1132, 1221, 1289, 1295, 1301, 1361, 1437, 1453, 1463, 1513, 1717, 1725, 1769, 1798, 1801, 1805, 1816, 1831, 1847, 1855, 1861, 1863, 1871, 1887, 1921, 1942, 1995, 2047
– magnetocrystalline 15, 737, 1081, 1152, 1198, 1219, 1231, 1331, 1333, 1341, 1347, 1353, 1367, 1473, 1772
– RE compounds 93, 1391, 1394
– random 103, 115, 123, 133, 149
– stress 119
– surface 1857, 1863
Anisotropy fields 401, 1143
Anisotropy model
– random local 125
– random magnetic 157
Anisotropy theory 387
Anomalous Hall effect 1749
Antiferromagnetic resonance 949, 1037, 2129
Antiferromagnetism 11, 17, 19, 21, 43, 51, 53, 55, 187, 199, 267, 269, 287, 350, 499, 505, 541, 577, 579, 583, 585, 596, 611, 689, 693, 697, 699, 735, 747, 757, 761, 766, 799, 809, 813, 839, 855, 857, 874, 885, 887, 903, 908, 927, 929, 939, 949, 951, 959, 1065, 1079, 1185, 1187, 1237, 1249, 1383, 1397, 1401, 1403, 1481, 1485, 1501, 1531, 1603, 1607, 1741, 1896, 1999, 2017, 2025, 2043, 2045, 2061, 2077, 2109
– coupling 1887
– domains 243
– film 1689
– Heisenberg model 863
– order 1245
– resonance 607
– semiconductors 999
– spin correlations 461
– spin waves 805
Antiferromagnets 201
APW method 1684
Artificial superlattices 1763, 1772, 1885, 1896
Atomic moments 1699
Auto-oscillations 1043
Autocorrelation function 1671
Automatic measuring system 375

Back scattering
– Rutherford 1751
Band calculations 65, 681, 683, 685, 695, 703, 727, 1308, 1533, 1923, 1933, 1965, 1967, 2019, 2037
Band hybridization 1684
Band structure 23, 733, 749, 1029, 1182, 1533, 1791, 1963
Band structure calculation 2113
Barkhausen effect 303, 324, 341, 355, 365
Barkhausen jumps 324
Barkhausen noise 385
BEG model 249, 282
Bethe approximation 282
BiSrCaCuO 537, 609
Biquadratic exchange 1389
Birefringence 1187, 1555
Bloch points, curves and lines 335
Bloch walls 385, 387, 1665
Bogoliubov's inequality 929
Boride 1098
Brillouin scattering 1679, 1807, 1863
Bubbles 305, 307

C-axis orientation 2047
Ca_2CuO_3, Le_2CuO_2 817
Canted ferrimagnetism 239, 1643
Canted ferromagnetism 189, 665, 1405, 2035
Carbide 1098
Carbonation 1439
Carrier concentration 575
Catalytic surfaces 267
$CeCo_{12}B_6$ 1313
$CeGa_2$ 1407
$CeIn_3$ 1411
CePdSn 665
CeSe 1204
Ceramic superconductors 471, 517, 573, 599, 611
Cerium 439
Cerium intermetallic compounds 1475
Chalcogenides 1249, 1641
Chaos 1055, 1057, 2111
Charge density waves 199
Chevrel phases 1247
Chiral order 929
Chirality 505
Chromium alloys 759
Chromium telluride 1947

Cluster approach 443, 445, 669, 855, 1157
Cluster dynamics 1665
Cluster effects 423
Cluster model 1019
Cluster variation method 231
Clustered compounds 955
Co–Cr films 2047
Co–Cr recording media 971, 1725
Co–Cr sputtered films 1801
Co/Au 1845
Co/Cu multilayers 1907
$Co_{7-x}Mn_xGe_6$ 2043
Co/Pt 1845
Co/Pt/Co trilayers 1775
Coatings 1553
Cobalt 1843, 1887
Cobalt thin films 343, 1798
Coercive field 1088, 1126, 1191, 1553
Coercive force 1829
Coercivity 371, 377, 385, 399, 433, 969, 979, 1117, 1129, 1137, 1143, 1155, 1161, 1169, 1179, 1389, 1543, 1587, 1779, 1801, 1811, 1847, 1899, 2047
Coercivity mechanisms 1126
Coherent potential approximation 677, 733
Cole–cole distribution 165
Collinear antiferromagnet 918
Colloids 1551
Commensurate spin structure 823
Compensation 1833
Compensation temperature 1033
Composite materials 1591
Compositionally modulated alloys 1760, 1763
Compositionally modulated films 1889
Computer simulation 843
Concentration effect 2099
Conductivity tensor 1023, 1947
Cone phase 71
Cone structure 1523
Copper 1843, 1887
Copper formate tetradeuterate 557
Copper halide systems 831
Core loss 387
Correlated electrons 593
Correlation potentials 1444
Correlations 587, 723
– magnetic 625
Corrosion 1147
Corrosion stability 1216
Critical concentration 2099
Critical currents 481, 615
Critical dynamics 201
Critical exponents 239
Critical fields 483, 731, 1453
Critical phenomena 89, 175, 181, 184, 189, 193, 195, 197, 204, 207, 209, 213, 216, 257, 259, 261, 267, 271, 273, 287, 289, 291, 294, 300, 655, 775, 843, 929, 1045, 1655, 1693, 1795
– hysteresis 277, 387
– Ising model 191
Critical state models 615
Crossover 300
Crossover behavior 297
Crystal fields 15, 489, 545, 613, 651, 953, 1159, 1189, 1198, 1221, 1267, 1269, 1273, 1301, 1347, 1355, 1357, 1371, 1387, 1391, 1405, 1499, 1513
– effects 1283
– induced anisotropy 1277
– RE compounds 737, 1149
– theory 1359
Crystal growth 1247
Crystal structure 255, 425, 849, 851, 1086, 1092, 1873
Crystalline electric field 1375
Crystalline phase 1191
Crystallinity 1801
Crystallization 1281, 1903
Crystallization temperature 1179, 2021
Crystallographic ordering 1993
Crystallographic properties 657
Crystallography 568
$CsCoCl_3$ 825
$CsFeCl_3$ 777
Cu–Zr 91
Cu_3Au-type structure 2049
CuO 503
Cubic laves phase 1399
Cubic magnetocrystalline anisotropy 1569
Cubic spinels 405
Curie temperature 131, 167, 661, 885, 887, 915, 1017, 1086, 1088, 1102, 1275, 1344, 1496, 1739, 1927, 1929, 2021
Cyclic stress 377
Cyclotron mass 1407

Damped spin waves 687
Damping 419
De Haas–van Alphen effect 39, 1239, 1365, 1407, 1409, 1411
Debe–King structure 1701
Debye temperature 1435
Decorated lattice 279
Deflection yoke 413
Delafossite 823
ΔE effect 392
Demagnetising process 313
Demagnetized state 313, 392
Density functional theory 1381
Density of states 65, 1976, 2019, 2099
Diamagnetism 575
Differential equations
– nonlinear 331, 2111, 2129
Differential phase contrast 315, 343
Dilute alloys 287, 2017, 2033, 2081
Dilute magnetic semiconductor 937
Diluted antiferromagnets 269
Diluted ferromagnets 259
Diluted magnetic semiconductors 989, 993
Dimensional crossover 294
Dimensionality 300, 1619, 1621, 1623
Diperiodic magnetic layer 1787
Dipolar field 825
Dipole coupling 915, 1211, 1901
– transverse 219
Disaccommodation 427
Disorder 77
– alloys 733, 2077
– substitutional 711
Disorder magnetic insulators 269
Disordered alloys 1673, 2023
Disordered Ising models 195
Domain
– structure 85, 179, 317, 321, 329, 353, 363, 365, 387, 389, 421, 915, 1161, 1734, 1805
– wall 315, 319, 343, 1505, 1813
– wall dynamics 77, 161, 324, 327, 331, 335, 339, 387, 395
– wall motion 309, 345, 359, 387, 663
– wall pinning 1137
– wall soliton 825
– wall stabilization 333
Domains 357, 361
Doping effects 1007, 1019
Double exchange ferromagnets 923
DyB_6 1233
DyBaCuO 625, 821
Dynamic critical effects 193
Dynamic exponents 197
Dynamic Kerr imaging 973
Dynamic random fields 1959

Easy-plane anisotropy 785
Easy-plane Heisenberg chain 1067
Eddy current loss 379, 387, 413
Effective critical exponent 259
Effective-field method 273
Effective-field theory 233
Effective-medium model 529
Elastic constants 1517, 2031
Electric-field gradients 683, 1399
Electric transport 1189, 2029
Electrical properties 2049
Electrical resistivity 19, 53, 69, 97, 456, 511, 759, 871, 874, 889, 923, 1189, 1233, 1235, 1285, 1349, 1955, 2029, 2075, 2081
Electrical transport 923
Electron beam evaporation 981
Electron correlations 677, 679
Electron microscopy 963

Electron paramagnetic resonance 487, 563, 793, 947, 1649, 2092
Electron-spin resonance 561, 761, 811, 839, 1525, 1571, 2105
– line broadening 1645
Electron structure 7, 443, 1157, 1765
Electronic specific heat 67
Electronic state 2087
Electronic structure 91
Electronic structure calculations 659
Electronic structure of magnets 755
Electrophoretic deposition 529
Energy band calculations 1378
Energy band structure 1947
Energy gap 874
Energy gap formation 1415
Enhanced paramagnet 1265
Entropy 1435
Epitaxial growth 445
ErBaCuO 625
ErIG 453
EuSe 991
Europium 1507
Exact diagonalization 679
Exact solution 184
EXAFS 121
Exchange 835, 1323, 1712, 1863, 1868
– anisotropy 951, 1463, 1901
– biquadratic 191
– constant 131, 803, 815, 885, 887, 947, 1325
– constants in insulators 788
– coupling 1840
– coupling effect 1017
– fluctuations 121, 817
– frustration 935
– insulators 837, 955, 1981
– integrals 1381
– interactions 1081, 1444, 1721, 1807, 1861, 1876
– parameters 1344
– RKKY 649, 937, 1619, 1901, 2072
– Ruderman–Kittel 903
– sp-d 995
– splitting 1378, 1496
– striction 731, 1509, 1951, 1979, 2059, 2061
– transition metals 727
Exchange interactions
– competing 253, 257, 279, 901, 939, 1635, 1639
Excitations
– nonlinear 785

4f-conduction hybridization 1327
4f moments 1447
Fan phase 71
Far infrared spectrometry 949
Faraday rotation 403, 425, 439, 445
Fe–Ni–Mn 2069
Fe–Ni alloys 159
Fe–Ni films 1807
Fe–Ni Invar 2053
Fe–Pt alloys 2051, 2055
Fe–RE amorphous alloys 131
Fe alloys 1597
FeCoAs 1989
Fe compounds 893, 1969, 1973
Fe/Cr 1747
$Fe_{7-x}Mn_xGe_6$ 2043
Fe_4N 1933
$Fe_{16}N_2$ 1081, 1933
FeN films 1851
FeN thin films 1899
Fe_2O_3 1921
Fe particles 1560
Fe/Pd films 1825
FeVAl alloys 2067
FeVSi alloys 2065
Fe/ZnSe multilayers 1827
Fermi-liquid behavior 67
Fermi-liquid effect 707
Fermi-liquid model 709
Fermi liquids 507
Fermi surface 1365, 1407, 1409
Ferrimagnetism 43, 131, 837, 887, 893, 1185, 1349, 1361, 1363, 1515, 1833, 1879, 2092, 2103
Ferrimagnets 1437
Ferrites 413, 419, 969, 979, 1005, 1143, 1591, 1643
Ferritin 1549
Ferro–antiferromagnetic competition 1351
Ferrofluids 1551, 1555
Ferromagnetic alloys 2049
Ferromagnetic clusters 1094
Ferromagnetic films 1699, 1760, 1772, 1785, 1789, 1807
Ferromagnetic itinerant electrons 2037
Ferromagnetic materials 745
Ferromagnetic resonance 117, 125, 429, 977, 986, 1039, 1043, 1072, 1075, 1547, 1679, 1709, 1743, 1775, 1822, 1871, 2089
Ferromagnetic ribbons 1152
Ferromagnetism 31, 43, 47, 51, 53, 55, 300, 679, 705, 713, 785, 885, 887, 905, 915, 1155, 1229, 1363, 1613, 1691, 1781, 1976, 2045, 2092, 2103
Ferromagnets 1413, 1923, 1933
Field annealing 109
Field cooling effect 781
Field theory 181
Film stress 1847
Finite element analysis 1111
Finite element method 965
Finite-size effects 181
Fluctuation theory 291
Fluctuations 775
Flux density distribution 559
Flux distribution 483, 527, 535
Flux leakage 1111
Flux lines 493
Flux pinning 481, 485, 539
Form factor 2083
Fractals 211, 341
Franck–Condon effect
– magnetic 1061
Frequency effects 1851
Frustrated Ising model 236, 1045, 1617, 1647
Frustrated magnetic structures 1465
Frustration 197, 199, 253, 505, 587, 599, 751, 753, 825, 835, 929, 1635, 1637, 1645

G-factor 727, 947
$GaCo_{1-x}Cr_x$ 2040
Gadolinium 1021, 1693
Gap throat height 965
Garnet films 433
Garnets 335, 361, 429, 431, 441, 443, 445, 447, 453, 559, 1072
Gaseous paramagnetism 2127
Gauss type function 2127
Gd–Cr alloys 1351
$GdCo_{12}B_6$ 1313
Gd/Fe multilayers 1833
Giant magnetoresistance 1081, 1753
Giant moments 1933, 2017
Gibbs state 267
Gilbert equation 977
Glassy systems 487
Grain boundaries 529, 1169
Grain-oriented steel 387
Grain size 421, 1007, 1137
Granularity 529
Green phase 568
Griffiths singularities 423
Griffiths temperature 1671
Ground-state properties 251, 447, 839
Grüneisen parameter 693
Guinier plots 1551

H–T phase diagram 163
Haldane gap 801, 807
Hall effect 923, 1155, 1755
Hard magnetic materials 321, 363, 368, 1123, 1135, 1152, 1155, 1161, 1193, 1277, 1287, 1405
Hard magnetic recording media 977
Hard magnetism 1090
Heat capacity 619, 627, 953, 1167, 1319, 1976
Heavy electron systems 655, 1293
Heavy fermion compounds 47, 57, 60, 1415
Heavy fermion systems 647

Heavy fermions 39, 49, 1385, 1411, 1905
Heisenberg–Ising chains 799
Heisenberg antiferromagnetism 769
Heisenberg antiferromagnets 557, 761, 793, 809, 811, 813, 839, 1795
Heisenberg chain 797, 861, 865, 867
Heisenberg ferromagnet 339, 788, 885, 1577, 1707
Heisenberg model 207, 253, 741, 766, 845, 885, 887, 905, 929, 1035, 1069, 1689
Helical antiferromagnets 47, 345, 689, 1517
Helical spin structure 859
Helifan phase 1523
Helimagnetic order 695, 1035, 1511, 1729
Hematite 350
Henkel-type plots 1569
Heusler alloys 705, 1011, 1751, 2011, 2013, 2072
Heusler compounds 1435
Hexaferrites 409, 411
Hexagonal ferrites 403
High coercivity 1175
High-density recording 1725
High-field magnetism 729, 731, 813, 1311, 1321, 1325, 1473, 1475, 1949, 2105
High-field measurements 1275
High magnetic fields 17, 811, 949, 1239, 1241, 1597
High pressure 255, 503, 641, 1317, 1413, 1937, 2075
High-T_c oxides 461
High-temperature series expansion 253
HoB_6 1233
Hole doping 461
Hole momentum 465
Holes in antiferromagnets 465
Holmium 1523
Hot pressing 1169
Hubbard clusters 679
Hubbard model 251, 499, 579, 593, 669, 673, 723, 739, 741
Hybridization 63, 1252
Hydrogen absorption 89, 729, 1169, 1231, 1279
Hydrogen diffusion 152
Hydrogen in metals 1243
Hyperchaos 2129
Hyperfine fields 167, 577, 729, 839, 921, 1113, 1165, 1195, 1283, 1313, 1315, 1399, 1405, 1413, 1437, 1513, 1599, 1705, 1809, 1935, 1987, 2011
Hyperfine interactions 1265
– anisotropic 1291
Hyperfine shift 589
Hyperfine structure 2051
Hysteresis 115
Hysteresis loops 100, 333, 337, 521, 1121, 1155, 1789, 1811, 1855
Hysteresis loss 413
Hysteresis relaxation 389

Impurity
– nonmagnetic 863
Impurity effects 815
– garnets 441
Impurity modes in magnetic insulator 1037
Impurity resonance state 759
In-plane magnetizing layer 1017
Incommensurate 913
Incommensurate–commensurate effects 759
Incommensurate magnetic structures 199, 287, 749, 1273
Incommensurate magnetism 735
Incommensurate phase 1213
Incommensurate structure 791
Indirect exchange 1397
Insulators 1603, 1639, 2092
Interaction effects 975
– long-range 989
Interactions
– configuration 2087
– dipolar 201, 1129
– exciton–magnon 1061
– ferromagnetic 2096
– impurity–impurity 1525
– magnetic 141, 955, 1249, 1336, 1543, 1593, 1697, 1819
– magnon–phonon 1049
– molecular-field 1381
– pairwise 1701
– quadrupolar 264, 653, 1198, 1336, 1525
– RKKY 1673
– spin–phonon 951
Interband transition 1023
Intercalation compounds 681
Interchain exchange 833
Interdiffusion 1751
Interface effects 1833
Interface magnetism 1684
Interface mixing 1753
Interface roughness 1753
Interfacial phenomena 1791
Interfacial structure 1809
Interferometer 1455
Interlayer coupling 1703, 1775
Intermediate valence 647, 659, 1355, 1415, 1475
Intermetallic compounds 31, 321, 657, 697, 729, 731, 745, 757, 925, 1305, 1315, 1317, 1378, 1449, 1451, 1463, 1923, 1931, 1963, 1965, 1967, 1976
Internal cavities 1543
Internal fields 1121
Internal strains 1809
Internal stresses 568
Interstitial modification 1098
Intersublattice transitions 1063
Invar effect 703, 747, 1925, 2075
Invar properties 1927
Invar systems 711
Ion beam sputtering 1847
Iron 743
Iron clusters 497
Iron films 1781, 1903
Iron nitrides 1933
Iron oxide 1937
Irreversible line 163
Ising 165
Ising magnets 423
Ising model 179, 181, 184, 193, 199, 207, 211, 261, 264, 275, 279, 300, 309, 837, 841, 905, 1661, 1663
– critical relaxation 219
Ising spin glass 1659, 1671
Ising system 294, 1599, 1601, 1607, 1609
Isomer shift 683, 1965
Itinerant antiferromagnetism 751, 753, 2029
Itinerant electrons 95, 671, 675, 689, 691, 693, 695, 697, 699, 705, 707, 721, 739, 747, 757, 1479, 1765, 1783, 2089
– ferromagnetism 681, 701, 703
– magnetism 456, 1913, 1967, 2057
– metamagnetism 709
– paramagnetism 727
– spin waves 713
– system 1942
Itinerant magnetism 673, 687, 711, 737, 743, 881, 2083, 2085
Itinerant spin fluctuations 685

Jahn–Teller effect 2011, 2013
Josephson junction 529

Kerr effect 109, 387, 397, 399, 1002, 1021, 1023, 1029, 1033, 1749
Kerr ellipticity 1013
Kerr rotation 1009, 1019, 1825, 1827, 1855
Kinetics of ordering 177
Knight shift 1589
Kondo effect 639, 649, 651, 665, 1241, 1385, 1435, 1905, 2081
Kosterlitz–Thouless phase 741
Kosterlitz–Thouless transition 227

LAPW method 681
LaBaCuO 507
La_2CuO_4 515
Landau theory 1496
Lanthanum 563
Laser diode 1455

Lattice constants 547
Lattice distortion 1465
Lattice expansion 1086
Lattice gas 267
Lattice parameter 1441
Lattice vacancies 657
Laves phase 683, 1271, 1424
Laves phase compounds 697, 731, 935, 1257, 1421, 1427, 1465
Layer-type compounds 357, 513, 849, 851, 853, 953, 959
$LiVO_2$ 779
Lifshitz point 71
Ligand-field transition 944
Light scattering 663, 1039, 1047, 1835
Linewidth–temperature dependence 1627
Ln_2BaCuO_5 561
Local density approximation 1444
Local environment effects 1431, 1687, 1697, 1931, 1965, 2019, 2055, 2085
Local moment formation 1421
Local moments 7, 1931, 2009
London penetration depth 509, 633
Longitudinal media 963
Lorentz images 365, 1161
Lorentz microscopy 329
Low-dimensional systems 199, 619, 627, 777, 785, 793, 797, 807, 815, 817, 819, 827, 829, 835, 837, 839, 845, 1913, 2092
Low-energy spin waves 687, 715
$LuBaCuFO_5$ 571

Magnetic anisotropy 387
Magnetic breakthrough 1409
Magnetic circular dichroism 439, 2087
– X-ray 1418
Magnetic dichroism 2001
Magnetic disorder 895, 897
Magnetic distortion 465
Magnetic domains 109, 241, 1453, 1745
Magnetic epitaxial films 1805
Magnetic excitations 713, 718, 793, 797, 809, 855, 949, 951, 1065, 1204
Magnetic films 451, 971, 1011, 1772
Magnetic fluctuations 507
Magnetic flux pinning 521
Magnetic force microscope 2123
Magnetic hardening 1137
Magnetic hardness 1389
Magnetic hysteresis 103, 155, 355, 377, 382, 392, 399, 415, 433, 915, 1033, 1641
Magnetic induction 315
Magnetic instability 1465
Magnetic insulators 815
Magnetic intersublattice coupling 1275
Magnetic loss 387
Magnetic moment defect 2065
Magnetic moment distribution 111, 583, 681, 1394, 1931
Magnetic moments 33, 82, 255, 729, 731, 1037, 1088, 1198, 1275, 1359, 1939, 1961, 1963, 1991, 2009, 2019, 2021
Magnetic multilayers 1705, 1712, 1721, 1734, 1745, 1753, 1755, 1760, 1767, 1772, 1807, 1809. 1811, 1816, 1829, 1840, 1845, 1857, 1859, 1863, 1876, 1885
Magnetic ordering 543
Magnetic orientation 1772
Magnetic oxides 417, 617, 871, 1643
Magnetic particle media 1591
Magnetic permeability 382, 421
Magnetic phase diagram 135, 170, 187, 229, 277, 285, 447, 555, 885, 887, 908, 911, 937, 1159, 1185, 1187, 1233, 1329, 1336, 1427, 1481, 1639, 1879, 2045, 2109
Magnetic polarization 401
Magnetic polymers 2101
Magnetic power loss 337, 387
Magnetic precipitates 781
Magnetic prisms 1111
Magnetic properties 63
Magnetic properties of monolayers 1805
Magnetic quantum chains 273
Magnetic recording 973, 983, 1553
Magnetic recording head 1899
Magnetic recording media 417, 961, 967, 975, 1725
Magnetic refrigeration 1094
Magnetic relaxation 1283
Magnetic resonance imaging 1111
Magnetic satellites 913
Magnetic scattering 2015
– X-ray resonance 1213
Magnetic semiconductors 986, 995, 997, 1096, 1795
Magnetic structure factors 623
Magnetic structures 21, 33, 51, 555, 591, 617, 871, 891, 899, 908, 925, 927, 933, 935, 939, 1139, 1235, 1285, 1359, 1383, 1485, 1527, 1529, 1629, 1989
– noncollinear 159, 749
Magnetic superconductors 527, 535, 587
Magnetic superlattices 1739, 1777, 1843, 1865, 1871, 1915
Magnetic surface anisotropy 1679, 1743
Magnetic tip parameters 2123
Magnetic transitions
– successive 859
Magnetically ordered ground state 657
Magnetization 43, 85, 93, 121, 211, 429, 731, 827, 918, 949, 1102, 1152, 1191, 1387, 1441, 1577, 1637, 1693, 1783, 1822, 2035
– bulk 1152
– curves 31, 277, 337, 475, 675, 815, 1739, 1803, 2003
– density 583, 623
– dynamics 219
– field-dependent 93, 189
– first-order processes 1429
– high-field 157, 803, 1223, 1429, 1460, 2003, 2053
– losses 1676
– measurements 801, 813, 853, 1086, 1159, 1993
– perpendicular 979
– processes 27, 147, 155, 361, 371, 387, 433, 1145, 1221, 1321, 1463, 1635, 1639, 1861, 1896, 1969, 2119
– relaxation 1565
– reversal 1565
– reversal mechanisms 1117, 1813
– reversal processes 1163
– saturation 979
– spontaneous 1069
– temperature-dependent 603, 993, 1115, 1593, 1868
– time-dependent 521, 1603
Magnetization processes
– first-order 2119
– quasi-first-order 2119
– second-order 2119
Magneto-optic films 1015
Magneto-optic recording 303, 1005, 1007, 1017, 1025, 1033
Magneto-optical Kerr effect 1825, 1827, 1855
Magneto-optical Kerr spectrum 1947
Magneto-optical materials 1031
Magneto-optical measurements 995
Magneto-optical properties 1005
Magneto-optical storage 1021
Magneto-optics 35, 311, 389, 397, 441, 443, 451, 993, 1009, 1011, 1013, 1027, 1029, 1061, 1749, 1763, 1779, 1787
Magnetocaloric effect 1094
Magnetochemical properties 1997
Magnetocircular dichroism 944
Magnetocircular photoluminescence 944
Magnetoelastic coupling 1717
Magnetoelastic effects 1507, 1729
Magnetoelastic energy 152
Magnetoelastic sound generation 355, 1709
Magnetoelasticity 107, 365, 701, 1293, 2006
Magnetoelectric effect 449
Magnetometer 1455
Magnetometry 481
Magnetoresistance 15, 53, 1209, 1271, 1365, 1407, 1409, 1712, 1734, 1745, 1747, 1755, 1777, 1803, 1861, 1883, 1887
– amorphous alloy 2079
– giant 1907
– RE alloys 2079

Magnetoresistivity 1243
Magnetostatic methods 2067
Magnetostatic studies 1437
Magnetostatics 1039, 2116
Magnetostriction 73, 100, 107, 117, 137, 145, 152, 355, 392, 731, 1305, 1433, 1453, 1455, 1468, 1471, 1515, 1531, 1537, 1831, 1847, 1851, 2072
Magnetothermal effects 701, 703, 1152
Magnetotransport 991
Magnetovolume effects 143, 703, 731, 747, 1257, 1331, 1927, 1935, 2057, 2075
Magnetron sputtering 1907
Magnons 833, 949, 1047, 1049, 1053, 1059, 1063, 1065, 1072, 1075, 1783, 2089
Materials evaluation 375
Maximum entropy 1424
MBE films 399
MBE grown films 1703, 1705
Mean field theory 291, 877
Mean free path 1745
Mechanical alloying 1090
Meissner effect 539, 573
Melt-spun NdFeB 1147
Meta-magnetism 37
Metal–insulator 999
Metal–metalloid foils 1709
Metallic copper oxides 575
Metallic glass ribbons 333
Metallic glasses 82, 85, 87, 93, 111, 137, 139, 141, 147, 152
Metamagnetic effects 1252
Metamagnetism 170, 617, 649, 675, 731, 1209, 1262, 1378, 1995, 2057, 2105
Metastable alloys 1351
Metastable domains 373
Metastable phase 1281
Microfabricated cantilevers 2123
Micromagnetic calculation 353
Micromagnetic domains 343
Micromagnetic structures 305, 307, 335
Micromagnetics 241
Micromagnetism 353
Microstructure 1471
Microstructure ternary RE compounds 1092
Microwave absorption 471
Microwave ultrasonics 373, 957
Mictomagnetism 887
Mixed phases 609
Mixed valences 661, 955, 1171, 1418
MnAlGe 1923
MnBi(Al) film 1023
$(Mn_{1-x}Fe_x)_3Ge$ 2045
MnGaGe 1923
MnP 47, 345
MnRhAs 1995
MnSi 689
Modulated magnetism 71
Molecular-beam epitaxy 1729
Molecular-field theory 131, 885, 908, 1185, 1187
Molecular magnetism 2103
Molecular materials 2103
Moment instability 935
Monoclinic pyrrhotite 1985, 1987
Monodomains 1553
Monte Carlo calculations 1094
Monte Carlo method 1067
Monte Carlo renormalization group 195
Monte Carlo simulations 179, 209, 227, 249, 282, 677, 841, 877, 915, 1595, 1601, 1609, 1663
Morin transition 1921
Mössbauer effect 43, 501, 543, 551, 571, 621, 1431, 1477, 1567, 1969
Mössbauer spectroscopy 33, 82, 111, 128, 225, 497, 729, 827, 893, 921, 997, 1033, 1088, 1113, 1123, 1279, 1283, 1359, 1399, 1549, 1557, 1563, 1597, 1599, 1668, 1695, 1703, 1705, 1785, 1793, 1857, 1859, 1889, 1891, 1893, 1903, 1921, 1937, 1987, 1999, 2023, 2051, 2067
Mössbauer studies 1437
Multicritical point 187, 197
Multilayer structures 1779
Multilayers 1021, 1743, 1751, 1763, 1767, 1789, 1793, 1803, 1813, 1822, 1868, 1873, 1887, 1891, 1893, 1901
– magnetic thin-films 973
– metallic 1819
– Pd/Co 1831
– Pd/Ni 1831
Multineuron model 1652
Multiple-*q* structure 2001
Muon spin relaxation 495, 599, 801, 1959
Muon spin resonance 461, 509, 825, 1311
Muon spin rotation 941, 1267, 1269, 1424

1/*n* expansion 541
Nanosecond pulse technique 609
Nasicon 933
Nd–Dy–Fe–B alloy 1175
NdCeCuO 519
NdFeB 1173
NdFeB magnets 1129
NdFe films 981
$NdIn_3$ 1409
Nd_2NiO_4 918
Néel temperature 29, 735, 885, 887, 1185, 1187, 1937
Negative spin temperature 915
Neodymium 913, 1021
Neural networks 1652
Neutron damage 1921
Neutron depolarization 421, 1560
Neutron diffraction 33, 47, 51, 317, 345, 350, 495, 519, 555, 591, 617, 657, 665, 735, 791, 857, 859, 911, 913, 925, 927, 959, 1132, 1262, 1373, 1383, 1421, 1511, 1519, 1523, 1657, 1915, 1985, 1989, 2045
– polarized 623, 630
– powder 823
Neutron powder diffraction 918
Neutron reflection
– polarized 1798
Neutron scattering 67, 85, 197, 253, 453, 607, 761, 809, 821, 931, 933, 1201, 1501, 1629, 1637
– critical 287
– diffuse 827, 2065, 2077
– elastic 21, 585, 871, 895
– inelastic 507, 557, 699, 713, 715, 718, 869, 897, 1049, 1204, 1257, 1283, 1295, 1375, 1391, 2083
– polarized 159, 527, 535, 583, 1394, 1625
– quasi-elastic 517, 895, 897, 1627
– small angle 85, 243, 687, 1051, 1560, 1585, 1889
Ni–Zn–Cu ferrite 413
NiAs structure 255, 1961
NiFe alloy 715
Ni monolayers 1684
Nitrides 1098, 2003
Non-Kondo lattice 1407
Nuclear magnetic ordering 903, 908, 915, 2113
Nuclear magnetic resonance 431, 461, 577, 589, 635, 807, 903, 1159, 1165, 1265, 1315, 1317, 1355, 1405, 1413, 1449, 1451, 1513, 1589, 1615, 1751, 1935, 1961, 2013, 2092
– Knight shift 49, 653, 655
– measurements 2011
– relaxation 49, 456, 655, 1077, 2027
– spin echo 409, 411, 523, 525, 807, 1195, 1198, 1225, 1331, 1333, 1809, 1843
Nuclear magnetic shielding 2127
Nuclear magnetism 908, 915
Nuclear orientation 1265
Nuclear quadrupole resonance 503, 509, 635, 641
Nuclear spin diffusion 957

One-dimensional antiferromagnets 801, 1061, 1096
One-dimensional compounds 2103
One-dimensional ferromagnet 831, 833
One-dimensional systems 761, 771, 805, 809, 811, 813, 839, 847, 857, 869, 1077, 2092, 2099
Onion skin domains 373
Optical absorption 445, 777

Optical absorption spectroscopy 1245
Optical Bragg scattering 213
Optical conductivity 456
Optical excitation 1063
Optical properties 443, 1005, 1533, 1741
Orbital magnetic moment 2001
Orbital magnetism 1942
Order–disorder 1002
Ordered alloy 2061
Ordering
– magnetic 13, 57, 85, 93, 477, 479, 519, 553, 599, 607, 619, 621, 627, 735, 817, 821, 881, 929, 939, 941, 1201, 1247, 1303, 1485, 1521, 2015, 2023, 2072
Organic compounds 1096, 2092
Organic conductors 2099
Organic ferromagnet 2096
Orthoferrite 1037
Oxygen starvation 497
Oxygen stoichiometry 1969, 1973

Palladium 727
Parallel pumping 1055, 1059, 2129
Paramagnetic fluctuations 1269
Paramagnetic hydrides 1997
Paramagnetism 1991, 1997
– Pauli 11, 725, 2099
Parametric excitation 1041, 1055, 1057, 1059, 1072, 1075
Particle clusters 1551
Particle size 633
Particles 961, 975, 1563
– fine 979, 1547, 1553, 1557, 1565, 1567, 1571, 1589
– fine ferromagnetic 1574, 1695
– magnetic 128, 167, 1585
– regular shaped 329
– single domain 1152, 1543, 1569
– strongly magnetic 979
– submicron 969
Percolation 357
Periodic Anderson model 41, 447
Permalloy 1789
Permalloy films 1847
Permanent magnets 1081, 1111, 1115, 1117, 1121, 1132, 1143, 1145, 1159, 1161, 1165, 1167, 1171, 1173, 1175, 1179, 1216, 1295, 1347, 1447, 2003
Permeability
– complex 395, 427
Perpendicular anisotropy 401, 979, 1725, 1885, 1889
Perpendicular magnetic anisotropy 1845
Perpendicular magnetization 401, 1725, 1760, 1763, 1772
Perpendicular recording 965, 981, 983, 1725
Phase diagrams 267, 461, 833, 1515, 1523, 1671, 1929, 2069
Phase transitions 27, 47, 69, 71, 177, 189, 195, 209, 211, 219, 231, 233, 236, 243, 249, 255, 277, 279, 282, 289, 389, 407, 577, 625, 647, 691, 759, 779, 791, 815, 829, 841, 877, 885, 889, 899, 901, 918, 921, 949, 999, 1002, 1271, 1373, 1479, 1507, 1509, 1511, 1615, 1629, 1661, 1785, 1787, 1795, 1915, 1985, 1987, 1989, 1993, 1995, 2011, 2031, 2072, 2092, 2113
– commensurate–incommensurate 199, 901, 1511
– crystallographic 417, 1939, 2025
– ferromagnetic 45
– field-induced 173, 1139, 1223, 1237, 1262, 1311, 1323, 1401, 1403
– first-order 47, 350, 453, 823, 859, 1139, 1323
– low-spin–high-spin 405
– magnetic 41, 51, 53, 55, 170, 229, 271, 287, 300, 501, 553, 771, 819, 887, 891, 895, 897, 925, 927, 997, 1185, 1187, 1193, 1289, 1298, 1339, 1383, 1613, 1641, 1859, 1939, 1955, 1957, 1979, 2025, 2027, 2063, 2081
– martensitic 2013
– metal–insulator 1953
– metal–nonmetal 41, 45, 251, 723, 2099
– metamagnetic 1639
– nonequilibrium 267
– order–order 373
– Pott's model 264
– second-order 275, 287, 929
– spin-flop 277
– spin glass 264, 937, 2040
Phonon excitations 951
Phonons 663, 701, 1741
Photoemission 23, 671, 1691, 1693, 1781
Photoinduced magnetic effect 427
Plane rotator model 227
Platinum 727
Polarization
– Pd 1825
Polarized magnetic moment 1845
Polycrystalline MnZn ferrite 421
Polymers 2099
Pott's model 209, 257
Power law 1659
PrBaCuO 623
$PrCo_{12}B_6$ 1313
$PrCo_2Si_2$ 901, 1311
Preisach model 313
Pressure effect 29, 515, 532, 643, 645, 647, 711, 1371, 1441, 1927, 1929, 1951, 1957, 1983, 2059, 2061, 2063
PuS 65
PuSe 65
PuTe 65

3-*q* phase 913
Quadrilayer 1013
Quadrupole ordering 2105
Quadrupole shift 2051
Quantum effect 869
Quantum fluctuations 761, 799, 809, 857, 863, 1689
Quantum Monte Carlo simulation 863
Quantum thermodynamics 785
Quantum *XY* model 222
Quasi-ferromagnetism 243
Quasicrystal 2033
Quench melt growth 539
Quenching 885, 1595

R–Co amorphous alloys 1813
RE–Fe compounds 1219
$REBaSrCu_3O_y$ 568
RE compounds 1355, 1387, 1431
RE/TM multilayers 1861
RF sputtering 1769
$R_2Fe_{14}B$ 1363
$R_2Fe_{17}C_{3-\delta}$ 1439
RKKY 1519, 1521, 1734
R-lines 944
Raman scattering 1053
Random anisotropy 163, 165, 216, 243, 2079
Random-field Ising model 213
Random fields 77, 179, 193, 269, 277, 389
Random magnet systems 423
Random systems 103, 157, 161, 187, 189, 261, 264, 275, 309, 947, 1595, 1603, 1613, 1643, 1655, 1661, 1663
Random *XY* model 289
Rare earth 103, 419, 1481, 1513, 1529, 1537
Rare earth–transition metal alloys 1361
Rare earth–transition metal compounds 133, 135, 143, 397, 585, 731, 1102, 1117, 1123, 1139, 1152, 1155, 1157, 1163, 1195, 1198, 1211, 1221, 1227, 1262, 1275, 1308, 1319, 1321, 1325, 1327, 1329, 1331, 1333, 1339, 1341, 1347, 1349, 1369, 1405, 1429, 1441, 1460, 1473, 1477, 1959, 2079
Rare earth–transition metal films 1033
Rare earth–transition metal intermetallics 1468
Rare earth–transition metals 1252, 1279, 1344, 1378, 1381, 1399, 1418, 1444, 1455
Rare earth–transition metal multilayers 1889
Rare earth alloys 103, 121, 363, 1209, 1471, 1501, 1509, 1519, 1521, 1525, 1527, 1632
Rare earth compounds 170, 489, 551, 643, 645, 901, 953, 1145, 1159, 1165,

1185, 1187, 1189, 1204, 1225, 1243, 1247, 1267, 1269, 1281, 1385, 1397, 1401, 1951
Rare earth halides 1201
Rare earth hexaboride 1233
Rare earth intermetallic compounds 874
Rare earth intermetallics 317, 653, 661, 1171, 1229, 1237, 1262, 1277, 1285, 1291, 1298, 1301, 1303, 1311, 1313, 1357, 1359, 1365, 1367, 1373, 1375, 1383, 1389, 1403, 1413, 1415, 1433, 1479
Rare earth metals 177, 911, 1457, 1496, 1499, 1503, 1505, 1511, 1517, 1531, 1533, 1901, 1915
Rare earth permanent magnets 1098, 1439
Rare earth pnictides 655, 1239, 1241
Rare earth thin films 1729
$Rb_2Co_xMg_{1-x}F_4$ 947
$RbMnBr_3$ 791
Re-entrance 184
Re-entrant ferromagnetism 231, 1641
Re-entrant spin glass 87, 2069
Re-entrant system 1665
Re-entrant transition 1427
Reaction-diffusion process 267
Read/write 965
Reflectivity spectrum 1947
Relative permeability 1899
Relativistic APW method 65
Relativistic effects 733
Relativistic theory 755
Relaxation 139, 225, 487, 1589, 1597, 1617, 1793
Relaxation times 1063, 1659
Remanence 377, 415, 537, 1173, 1611, 1617
Remanence ratio 1747
Remanent magnetization 1601, 1993
Renormalization group 161, 204, 236, 251, 275, 300
Renormalization group methods 222, 273, 294, 297
Resistivity 29, 45, 565, 997, 1387
– spin disorder 95
– temperature-dependent 573, 1503
Resonating valence bond 547
Reversal mechanism 961
Rietveld 571
Room temperature superconductivity 581
Rotating actuator 1135

S=1 Ising model 285
SQUID 491, 1613, 1816
SQUID magnetometer 1132, 1611, 2069, 2103
Samarium 659
Saturation magnetization 971, 1451, 1829
Scaling 216, 300
Scanning electron microscope
– spin-polarized 1805
Scattering
– critical 1204
– elastic 1204
– spin disorder 2049, 2079
Self-energy 593
Semi-spin glass 239, 447, 1676
Semiconductors
– semimagnetic 989, 1605
Short-range interaction 835, 837
Short-range order 743, 819, 1245, 1593, 2017, 2065
Shubnikov–de Haas effect 1241
Sigma model
– nonlinear 541
Silicon iron 387
Simulation 319
Sine-Gordon model 1077
Sine-Gordon theory 1067
Single crystal high-T_c 630
Single crystals 481
Single domains 718, 1851
Single-ion anisotropy 191
Singlet ground state 15, 771, 1273, 1357, 1457
Size determination 1555
Skyrmions 793
Sm(Co,Cu,Fe,Zr) magnets 1126
Small particles 229, 979, 1577, 1585, 1587
Soft ferrites 401
Soft magnetic materials 100, 375, 387, 1829, 2116
Soft magnetic properties 1813
Soft magnetism 1090, 1899
Soft modes 949, 1035
Solid state reaction 563
Solitons 246, 273, 793, 1045, 1067, 1077, 2099
Specific heat 17, 23, 55, 113, 175, 181, 477, 479, 489, 613, 639, 691, 693, 779, 785, 803, 837, 881, 901, 959, 989, 1233, 1245, 1298, 1319, 1367, 1385, 1387, 1435, 1507, 1593, 1632, 1918, 1973, 2059, 2061
– magnetic 621, 1435
Speromagnet 133
Spin-1 model 231
Spin–lattice relaxation time 1693
Spin–orbit coupling 1942
Spin clusters 811, 955, 1577, 1641, 1668
Spin correlation functions 267, 766, 855, 1647
Spin crossover 225
Spin density 630
Spin density approximation 1496
Spin density functional theory 1019
Spin density waves 697, 749, 759, 1632, 1999, 2029, 2031
Spin-dependent absorption 1418
Spin diffusion 2092
Spin dynamics 67, 246, 253, 267, 517, 766, 867, 1041, 1067, 1072, 1075, 1077, 1571, 1627, 2111
Spin echo 1315
Spin-echo method 635
Spin exchange interaction 991
Spin flop 791, 939, 1861
Spin-flop phase 1079
Spin fluctuations 456, 511, 671, 675, 677, 691, 701, 703, 705, 747, 825, 1257, 1918
Spin frustration 859
Spin glass 87, 135, 163, 165, 179, 269, 513, 549, 1271, 1593, 1595, 1599, 1601, 1603, 1605, 1607, 1609, 1611, 1613, 1615, 1617, 1619, 1621, 1623, 1625, 1627, 1629, 1632, 1635, 1637, 1639, 1641, 1643, 1645, 1647, 1649, 1657, 1661, 1663, 1665, 1676, 2033, 2085
Spin-glass behavior 2101
Spin liquid 505
Spin polarization 1182, 1693, 1781, 2055
Spin relaxation 1595
Spin reorientation 453, 519, 949, 1051, 1149, 1159, 1167, 1193, 1227, 1277, 1301, 1339, 1341, 1363, 1369, 1371, 1429, 1995
– field-induced 1363
Spin-reorientation temperature 1113
Spin resonance 125
Spin-slip structures 1523
Spin waves 246, 699, 718, 721, 743, 809, 847, 949, 1035, 1041, 1053, 1055, 1065, 1069, 1079, 1577, 1707, 1783, 1835, 1865, 1876, 2109
– antiferromagnetic 1053, 1065
– contribution 2053
– dispersion 557
– dynamics 1807
– spectra 1381
– theory 855, 1798
– two-dimensional 769
Spinel 1641, 1643
Spinel ferrites 415, 425
Sputtered films 2047
Sputtered multilayers 1851
Staggered field 1223
Staggered susceptibility 757
Static magnetization 1613
Static scaling 1621
Statistical theory 233, 267, 1991
Stoner–Wohlfarth particle 1547
Stoner enhancement factor 727
Stoner-type contribution 2053
Stray field 963, 971

Stress 1453
Stress effects 355
Stress-induced anisotropy 1831
Stripe domains 241
Structural defects 871
Structural disorder 123
Structural/magnetic transition 29
Structural phase transitions 193, 1187
Structural relaxation 128
Structure 853
Structure factors 173
Structure phenomena 501, 645, 885, 2006
Super-effective field 929
Superconductivity 77, 229, 471, 473, 475, 477, 479, 481, 493, 499, 515, 527, 535, 543, 551, 565, 633, 661, 1247, 1777, 2105
– high-T_c 456, 465, 483, 485, 487, 489, 491, 495, 501, 503, 509, 511, 513, 517, 521, 523, 525, 529, 532, 545, 553, 555, 559, 568, 571, 579, 583, 585, 591, 596, 601, 603, 605, 607, 613, 621, 769, 1223, 1945
Superconductors 469
Superexchange 447, 835, 933, 1981
Superferromagnetism 1793
Superlattices 1747, 1883
Superparamagnetism 561, 1549, 1560, 1565, 1567, 1571, 1574
Surface anisotropy 1587, 1816, 1885
Surface chemical composition 971
Surface effects 659
Surface impedance 529
Surface magnetism 275, 1567, 1687, 1691, 1695, 1697, 1699, 1701, 1781, 1791, 1816
Surface magneto-optic Kerr effect 1798
Surface magnetostriction 1717
Surface modes 1707
Surface morphology 1007
Surface reconstruction 1701
Surface roughness 971, 1687, 1779
Surface spin waves 1679
Surface stress 385
Surface waves 1709, 1865
Susceptibility 141, 959, 997, 1641
– ac 13, 69, 71, 89, 133, 165, 243, 401, 473, 547, 549, 603, 615, 833, 893, 1227, 1505, 1507, 1591, 1665, 1879, 1929, 1995, 2033
– anisotropy 575
– dynamic 339, 589, 1571, 1613, 1783
– magnetic 43, 113, 415, 469, 537, 545, 575, 609, 625, 779, 781, 831, 835, 871, 918, 1233, 1245, 1351, 1403, 1457, 1591, 1973, 2049, 2081, 2101
– maximum 709
– nonlinear 1641
– paramagnetic 583, 685, 885, 1185, 1991, 2099
– static 187, 189, 1603, 1632
– static nonlinear 1787
Switching characteristics 2105
Switching field 1017
Switching speeds 977
Symmetry 1803
Synchrotron radiation 1947

3d impurities 2081
3d metal alloy 2059
3d metal compound 1983
3d metals 923, 1691, 1781, 1999, 2089
3d-transition metals 1883
2D magnetic behavior 625
Tb–Fe–Co/AL multilayers 1855
TbB_6 1233
Terfanol 1455
Ternary rare-earth compounds 1249
Tetracritical point 197
Texture 1557
TGA 571
Thermal activation 1126
Thermal expansion 175, 405, 643, 819, 1305, 1515, 1925, 1939, 1957, 1979, 2035
– spontaneous 1983
Thermal stability 1829
Thermal treatment 1593
Thermally induced ferromagnetism 707
Thermodynamics 1991
Thermoelectric power 923, 1955
Thermomagnetic effects 1271
Thermomagnetic relaxation 1769
Thermoremanence 539
Thin films 315, 397, 731, 841, 1021, 1027, 1031, 1699, 1707, 1760, 1781, 1791, 1835, 1837, 1903, 1905
– magnetic 331, 1699, 1725, 1741, 1765, 1767, 1783, 1829, 1915
Three-sublattice systems 837
Thulium 563, 1515
$Ti(BeCu)_2$ 687
Time-dependent effects 1611
Titanomagnetics 407
Topography 453
Torque magnetometry 485, 979, 1163, 1803
Transition metal alloys 718, 877, 1931, 2025, 2027, 2029, 2031
Transition metal compounds 187, 225, 681, 691, 723, 729, 731, 927, 1053, 1557, 1603, 1819, 1925, 1931, 1935, 1949, 1951, 1953, 1957, 1961, 1979, 2063
Transition metal films 1805
Transition metal ions 995
Transition metals 711, 749, 1323, 1945
Transmission electron microscopy 365, 1092, 1161
Transport properties 639, 1712, 1918, 1973
Transverse Ising model 233
Trapped electrons 991, 999
Triangular antiferromagnet 779
Triangular lattice 197, 285, 791, 819, 823, 829, 859, 1045
Tricritical point 191
Two-dimensional bilayer 821
Two-dimensional ferromagnet 931
Two-dimensional ferromagnetism 1703
Two-dimensional spin waves 1868
Two-dimensional systems 187, 257, 261, 585, 761, 766, 775, 788, 793, 803, 849, 851, 929, 947
Two-level systems 693, 1185
Two-sublattice systems 239, 1643

UGe_2 39
UPd_2In 29
U(SnIn) alloys 67
$UTGa_5$ 57
Ultrafine particles 1090, 1583
Ultrasonic attenuation 407, 1517, 1527, 2027
Ultrasonic holeburning 957
Ultrasonic velocity 1293
Ultrasound velocity 1527, 1529
Ultrathin films 1743
Uniaxial dipolar ferromagnets 204
Uniaxial ferromagnets 297
Uniaxial stress 382
Uranium compounds 69

Vacancies 969
Valence changes 1265
Valence fluctuations 639, 643, 653, 667, 1349
Valence instabilities 641, 651, 659
Valence states 647
Valence transitions 653
Vertical Bloch lines 305, 307, 331
Vibrating sample magnetometer 939, 1871
Viscosity 1555
– magnetic 368
Volume effect 653, 1427
Vortex dynamics 473, 529, 537

Wall dynamics 379
Wasping 1147
Weak ferromagnetism 187, 350, 549, 673, 675, 687, 725, 831, 1317, 1479
Weight increase 1147

X-ray absorption 2087
X-ray absorption spectroscopy 661, 1171, 2001, 2055
X-ray diffraction 47, 177, 453, 563, 565, 645, 1086, 1753, 1795, 1873, 2013

X-ray fluorescence 755
X-ray photoelectron spectroscopy 1147
X-ray powder diffraction 781
X-ray scattering 1551
XY model 843
Xα method 445

Y–Ni compound 725
YAG 439
YBCuO 539
YBaCuO 497, 589, 609, 630
YBaSrCuO 589
YCaBaCuO 635
YCo_5 1942
$Y(Co,Al)_2$ 1967
YCo_4B 1289
$Y(Fe,Al)_2$ 1965, 1967
YIG 427, 449, 1057, 1059
YIG films 429, 1043
YbInAgCu 647
$YbInCu_4$ 641
YbNiSn 665

Zeeman splitting 727
$Zr(Fe,Co)_2$ 1963
Zr K edge EXAFS 573